~~SECRET~~

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Allstar Upgrade Program

FROM: C/CSPO/OIT
402 Ames Bldg

EXTENSION | NO.

DATE 6/30/87

25X1

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. C/NSEG 2D02 Hqs				Attached is the Memorandum of Agreement (MOA) between C,IMS/DO and D/OIT/DA for the implementation of the ALLSTAR Upgrade Project. CSPO has reviewed and agrees with the MOA.
2. C/OPS Group 2D02 Hqs	12 MAY 1987			
3. C/CSG 2D02 Hqs				
4. C/MG 2D02 Hqs	26 JUN 1987	29 JUN 1987		
5. DD/OIT 2D00 Hqs				
6. D/OIT 2D00 Hqs				
7.				
8.				
9.				
10. Chief, IMS 1D4109, Hqs.				10. Note D/OIT comments on last page.
11.				
12.				
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14.				
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DD ALL:
I BELIEVE ALL OF THIS HAS BEEN COORDINATED WITHIN EACH GROUP. THIS IS FINAL CHECK BEFORE ED'S SIGNS

FORM 1-79 610 USE PREVIOUS EDITIONS

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MEMORANDUM OF AGREEMENT

Between

The Chief of the Information Management Staff, DO

and

The Director of Information Technology, DA

SUBJECT: Implementation of the ALLSTAR Upgrade Project

1. PURPOSE AND SCOPE - This Memorandum of Agreement (MOA) defines the responsibilities of the Information Management Staff (IMS) and the Office of Information Technology (OIT) regarding the implementation of the ALLSTAR Upgrade project.

2. BACKGROUND - Since the consolidation of Agency computer facilities within the Office of Information Technology (then the Office of Joint Computer Support) on 2 June 1974, the execution of the DO's ADP program has been divided between IMS and OIT such that OIT's responsibility has been focused on hardware and system software, and IMS's on applications software. This arrangement has worked quite satisfactorily over the years as the organizations have worked together to provide the desired level of computer support to the Directorate of Operations via a set of computer facilities in the Agency's Special Computer Center (SCC) dedicated exclusively to the support of the DO.

This set of computer facilities (to be referred to hereafter as the Baseline Configuration) has now been determined to require a very substantial upgrade, and a project known as the ALLSTAR Upgrade project (to be referred to hereafter as the Upgrade) has been defined to meet this need. The Upgrade, an 8 year, [redacted] has been planned and approved as a joint IMS-OIT development effort with both organizations to perform the roles they have traditionally performed since the 1974 consolidation action. 25X1

[redacted] 25X1

Currently, OIT is implementing a project known as SAFE to provide an upgrade to the computer capabilities of the Directorate of Intelligence (DI) and the Defense Intelligence Agency (DIA). It has been determined that the SAFE system would be useful in meeting the DO's requirements reflected in its Upgrade project, and the DO has thus asked OIT to implement a version of SAFE in the SCC which would be specially tailored to meet DO requirements.

At present, there is a general understanding between IMS and OIT concerning the attendant roles, missions and responsibilities pertaining to the Upgrade, as outlined below.

- OIT will continue to be responsible for hardware and system software, to include:
  - Acquiring, installing, testing, integrating, housing, operating and maintaining hardware (except for minicomputers, microprocessors, terminals and remote printers)
  - Acquiring, installing, testing, integrating and maintaining system software
  - Developing SAFE software for the DI and DIA -- then making it available to the DO for the Upgrade, modified as required to meet DO unique requirements
- IMS will continue to be responsible for applications software to include:
  - The continued development of the ALLSTAR system and a number of data base management system applications, and any modifications required to interface this software with SAFE

Since 1980, IMS and OIT have been working jointly to plan the Upgrade and to accomplish certain actions preparatory to full scale initiation of the project. Both organizations participated in a $250 thousand system study conducted by TRW during the period September 1980 to June 1982. This study documented a preliminary set of DO requirements, validated the feasibility of transferring the SAFE technology to the DO in response to these requirements, proposed a system architecture and provided some budgetary cost and schedule estimates. Subsequently, IMS and OIT personnel jointly developed hardware and software plans for the Upgrade as well as a baseline schedule and a funding profile. Funds have been requested in the DO budget as indicated below:

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Positions have been requested in the DO budget as indicated below:

FY 1987 (1) GS12 Operations
(1) GS09 Operations
(1) GS12 Maintenance Management
(1) GS13 Terminal Management

FY 1988 (2) GS09 Operations
(1) GS13 Maintenance Management
(1) GS12 Terminal Management
(1) GS11 Terminal Management

IMS and OIT have also worked together to develop some testbeds for the Upgrade, and to provide a minimal operational capability for a number of DO users. OIT installed the SAFE Early Capability software in the SCC, facilitating the implementation of a testbed for the DO's EA Division such that a number of it's operations officers could receive their electrical traffic via terminals at their desks. A similar capability was provided for the Office of the DDO, the DDO Duty Office, the Counterterrorism Center and various other elements of the Directorate. Nearly 50 reports officers in NC Division, as well as their counterparts in Headquarters, are now receiving their intelligence reports via terminals, and can edit them, prepare them for dissemination and send them out, all by electronic means. Over 250 terminals are installed in LA Division, over 150 in the Counterterrorism Center, and more than 80 in Central Cover Staff. Overall, there are more than 600 DO users who are equipped with Upgrade facilities of one form or another.

As evidenced by the information outlined above, the Upgrade project has progressed nicely to this point. It is time, however, to document in a formal way, the understandings that exist between IMS and OIT regarding the roles, missions and responsibilities of each organization concerning the further implementation of this important project. This MOA is intended to perform that function.

3. DEFINITIONS - The following definitions are applicable in the context of this document.

a. Applications Software - That software which operates in the Special Computer Center and which was developed by IMS programmers (as assisted by IBM contractor personnel) to meet unique requirements of DO components. Some examples are the ALLSTAR system (including the COMET data base), AIM applications (e.g. Intel Report processing system) and applications implemented using data base management systems (i.e. GIMS, NIPS, NOMAD, RAMIS, SQL/DS, etc).

b. Baseline Configuration - The equipment installed in the Special Computer Center, both hardware and software, that is unrelated to the Upgrade. This includes two IBM 3081K and one IBM 3083J central processing units and associated peripheral equipment, and all the software except for the SAFE Early Capability (SEC) and other software supporting the Upgrade.

c. Configuration Management - To control change and minimize its impact on the design, development, support and operation of ADP facilities.

d. SAFE Software - That software developed or acquired by the Consolidated SAFE Project Office (or its contractors) as a part of the SAFE project, both for the DI and DIA. This includes SAFE applications software, the INQUIRE Data Base Management System, and interfaces to external systems. (Some of the SAFE software, particularly that developed for DIA, may not be appropriate for use by the DO).

e. System Software - That software which is generally provided by vendors, often the vendor supplying the computer system, and which has traditionally been maintained in CIA by OIT. The prime examples are operating systems and associated utilities (compilers, assemblers, etc.) and data base management systems. Also defined in this category is the AIM electronic mail system, although AIM applications written by IMS are categorized as applications software.

f. Special Computer Center (SCC) - The computer facility located in room GC-57. This facility is staffed, managed and operated by OIT and is dedicated exclusively to the use of the DO.

g. Upgrade - The ALLSTAR Upgrade project; an 8 year, [redacted] project to provide substantial improvements in both the quality and quantity of information services provided to DO personnel. It envisions placing DO personnel directly online with their supporting computing facilities in the Special Computer Center, and providing such information services as message processing, electronic document storage/retrieval, office automation, and online access to existing DO applications. 25X1

4. BASIC AGREEMENTS - The following are the basic agreements between IMS and OIT in terms of Funding, Procurement, System Development, Installation, Operational Support, Configuration Management, Maintenance, Training, Documentation and Project Management.

4.1 Funding Agreements:

a. IMS will:

1). Budget for all ALLSTAR Upgrade project funds, to include:

a). Funds for central processor units and associated peripheral equipment and system software beyond that associated with the Baseline Configuration (excluding maintenance costs).

b). Funds for contractor assistance. The DO will fund for all SAFE software development that is unique to DO needs, and will share equally with other SAFE users the costs of SAFE software development that will benefit them as well.

c). Positions for both IMS and OIT.

2). Transfer funds to OIT as required to procure hardware and associated system software.

3). Transfer funds to OIT as required to provide contractor assistance for SAFE development/modification efforts, as indicated in paragraph 4.1.a.1).b). above.

4). Transfer positions to OIT as required by OIT support efforts.

b. OIT will:

1). Budget for funds to sustain the existing Baseline Configuration and to upgrade its associated hardware and system software as required to sustain the normal expansion attendant to its continued use by DO personnel. This will include:

a). Replacing the IBM 3083J and one IBM 3081K systems with two IBM 3090/200 (or equivalent) systems in the FY 1988/1989 time frame.

b). Replacing the remaining IBM 3081K system with an IBM 3090/200 (or equivalent) system in the FY 1990 time frame.

c). Adding online storage devices and other peripheral equipment as required to accommodate the normal growth of the Baseline Configuration.

d). Paying for the maintenance of all hardware and system software for the Baseline Configuration.

e). Paying for contractor assistance as required to sustain the normal expansion of the Baseline Configuration

2). Budget for funds for maintenance of Upgrade equipment (hardware and system software) beginning in FY 1987.

4.2 Procurement Agreements:

a. IMS and OIT will jointly determine the precise set of equipment, software items, and the type and level of contractor assistance needed to meet the requirements of the Upgrade.

b. IMS will pass the funds to OIT as necessary to pay for the equipment, software and contractor assistance needed, except that IMS will continue to administer its own contract with IBM.

c. OIT will procure all items, both hardware and software, associated with both the Baseline Configuration and the Upgrade.

4.3 System Development Agreements:

a. System development will continue to proceed incrementally during the entire period of the project, with a heavy emphasis on the use of testbeds. IMS will:

1). Define the requirements both for the expansion of the Baseline Configuration and the the development of the Upgrade.

a). The functional requirements to be satisfied by the Upgrade are described in an IMS document entitled ALLSTAR Upgrade Functional Requirements, dated 20 February 1986, and two associated documents entitled Directorate of Operations ALLSTAR Upgrade System Verification Requirements Matrix (VRM), revision C dated April 16, 1986 (Requirement Sequence), and Directorate of Operations ALLSTAR Upgrade System Verification Requirements Matrix (VRM), revision C dated April 16, 1986 (Modified Category Group Sequence). These documents have been provided to OIT and will serve as the formal statement of project requirements.

b). The requirements for the expansion of the Baseline Configuration will be passed to OIT annually in the usual Computer Facility Resource Requirements (CFRR) document. This will be prepared by IMS each year at such time that it can be used by OIT in the preparation of its next budget.

b. IMS and OIT jointly will:

1). Define a system architecture (both hardware and software) that will best satisfy the documented requirements.

2). Identify the modifications/expansions required to SAFE software to satisfy the requirements.

3). Identify the modifications/expansions required to the DO applications software.

4). Prepare a project schedule to reflect the completion of the SAFE and DO changes at the appropriate times.

c. IMS will modify/expand the DO applications software as required, with the assistance of its IBM contractor personnel.

d. IMS will also develop a set of user interfaces for the SAFE software to make it more user friendly and more applicable for use in the DO.

e. OIT will modify/expand the SAFE and AIM software as required, with the assistance of its associated contractor personnel. IMS will provide a number of personnel on loan to OIT to assist in these efforts. These personnel will serve as programmers, systems analysts, system engineers, and/or system managers as mutually agreed between IMS and OIT management.

f. OIT will provide a standard AIM-to-application program call interface. This interface will be derived jointly with IMS. AIM modifications may be needed to implement the interface after its development. Once defined and implemented, the interface will be controlled through a formal interface control document. Changes to the interface will be processed through OIT's AIM Configuration Control Board, of which IMS is a member.

g. OIT, with the assistance of IMS, will develop a cable origination system. This will be an Agency-wide system which will feature the capability to compose and edit operational cables; transmit them to coordinators electronically for change, comment and/or coordination; then transmit them to releasing officers who will send them out electronically through the Agency's communications facilities. A check will be made to ensure the releasing officers are authorized to release the particular cables involved, and a permanent record will be retained of the releasing actions. The overall responsibility for the project will be charged to OIT, permitting OIT to fulfill its responsibility to ensure that the system can be deployed Agency-wide and that long-term maintenance issues are addressed. However, IMS programmers will assist in the development effort, contributing as many personnel as possible, up to and including the project manager who will report to C/NSEG/OIT. Other OIT groups will also be involved, as well as the Office of Communications, to ensure that the implications on the transmission facilities are properly accounted for.

h. OIT will provide IMS with a standard SAFE interface to allow IMS to develop a DO-tailored user interface to SAFE. The environment will be defined and controlled through an interface control document.

4.4 Installation Agreements:

a. OIT will be responsible for the installation of all hardware, system software and SAFE software.

b. IMS will be responsible for the installation of all DO applications software.

c. IMS and OIT will jointly be responsible for the test and integration of the entire system.

4.5 Operational Support Agreements:

a. IMS will be responsible for providing first line operational support to Upgrade users.

b. OIT will be responsible for providing additional operational support when requested by IMS support personnel. This support will generally pertain to terminal, printer or computer system problems.

4.6 Configuration Management Agreements:

a. IMS and OIT will share the responsibility to monitor, evaluate and manage software and hardware configurations (including system responsiveness, availability and stability). IMS will provide representatives to serve as members of the existing SAFE configuration control boards and, as such, will participate in all review and approval mechanisms that affect the Upgrade. Otherwise, OIT will manage all hardware and system software configurations; and IMS will manage all DO applications software configurations.

4.7 Maintenance Agreements:

a. OIT will be responsible for the maintenance of all hardware, system software and SAFE software.

b. IMS will be responsible for the maintenance of all DO applications software.

4.8 Training Agreements:

a. IMS (with the possible assistance of OT&E and/or contractor personnel) will train the users of the Upgrade system. (OIR and/or contractor personnel will train IMS personnel in the creation and maintenance of SAFE user profiles).

b. OIT (AMB, DBMB, SAB, and DBCC) will provide initial training to IMS personnel (2-3 IMS personnel per OIT component) regarding the support of the SAFE system. This will include training in system production control, cable delivery, and the maintenance of control/security tables.

4.9 Documentation Agreements:

a. IMS will document its project management and software development efforts in accordance with existing DO standards.

b. OIT will document its project management and software development efforts in accordance with existing OIT standards.

c. OIT will provide initial SAFE user documentation to IMS. IMS will maintain this documentation so as to reflect changes to the SAFE baseline.

4.10 Project Management Agreements:

a. IMS will:

1). Be responsible for the overall management of the ALLSTAR Upgrade project, including project funding and the approval and prioritizing of development efforts.

2). Ensure that the Upgrade functional, computer security, system loading, system availability and response time requirements are adequately documented, approved and provided to OIT.

3). Acquire project funds and positions through DO budget actions.

4). Modify/develop DO applications software as required.

b. OIT will:

1). Be responsible for the overall management of the SAFE project.

2). Be responsible for the acquisition, installation, test, integration, operation and maintenance of the hardware and system software.

3). Be responsible for the modification/development of SAFE software as required to meet the Upgrade requirements.

c. IMS and OIT will jointly:

1). Conduct a requirements negotiation forum to determine which of the Upgrade functional and security requirements should be addressed by the modification/development of SAFE software, and which by DO applications software.

2). Conduct an analysis of the Upgrade functional, security and system performance requirements to identify the hardware and software architectures deemed to be the most technically feasible and cost effective.

3). Develop a project plan which will:

a). Identify the major development activities required, assign component (IMS or OIT) responsibilities, and map against a timeline to produce a master schedule. This will include the following:

(1). Software development phase points.

(2). Preliminary and critical design reviews.

(3). Hardware acquisition and installation phase points.

(4). System integration and testing activities.

(5). User training activities.

APPROVED:

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[redacted]

Configuration Management as defined in para 4.6 is probably unworkable. Everything in the DO area should be under a single CM process (i.e. software, hardware, ICD's, procedures etc) New words for para 4.6 should be developed -

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[redacted]